

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P324607

Luminaire Tested: **GLEON-SA3C-827-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324607  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3C-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11767 lumens  
Efficiency: N/A  
Efficacy: 70.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

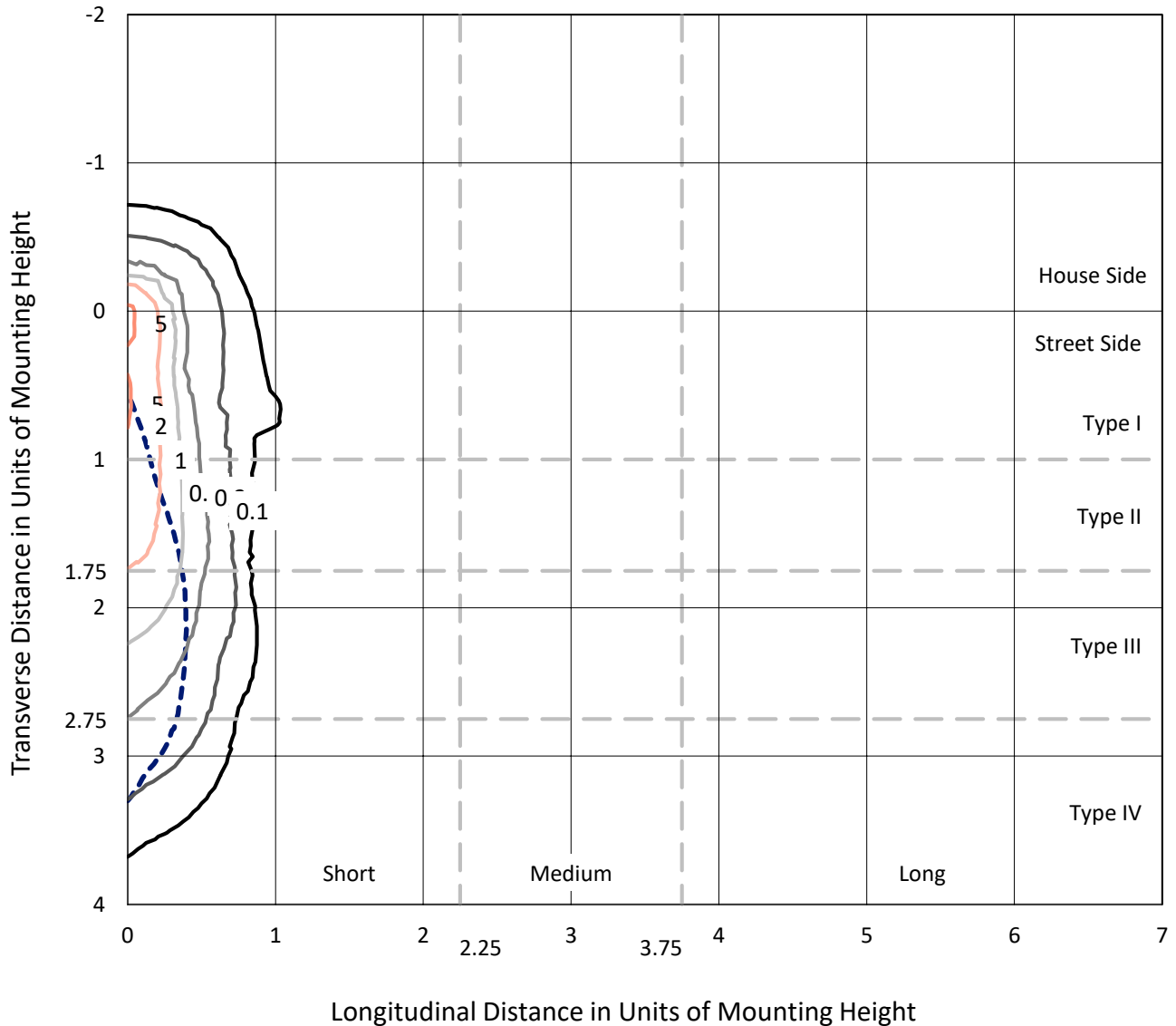
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

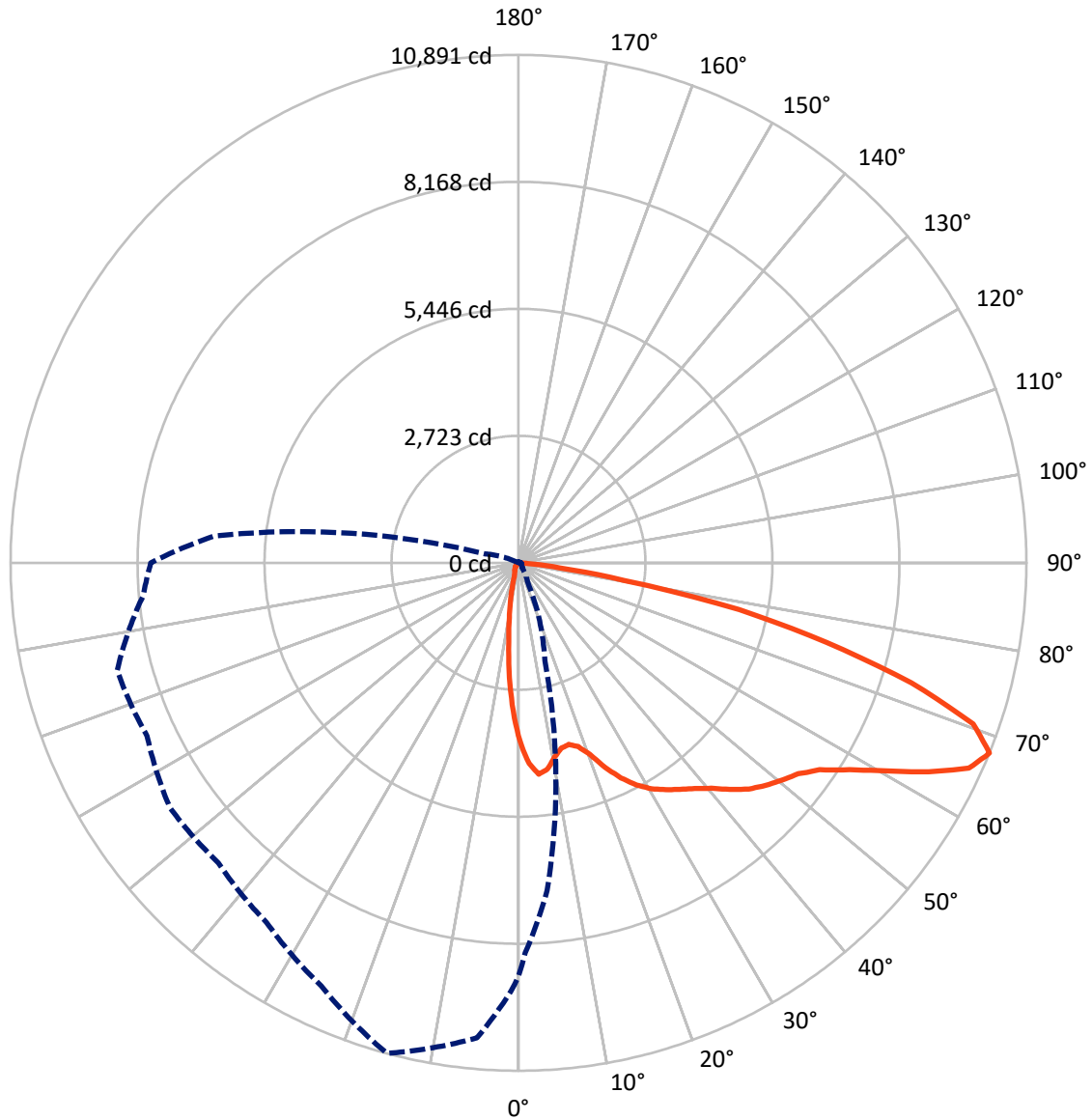
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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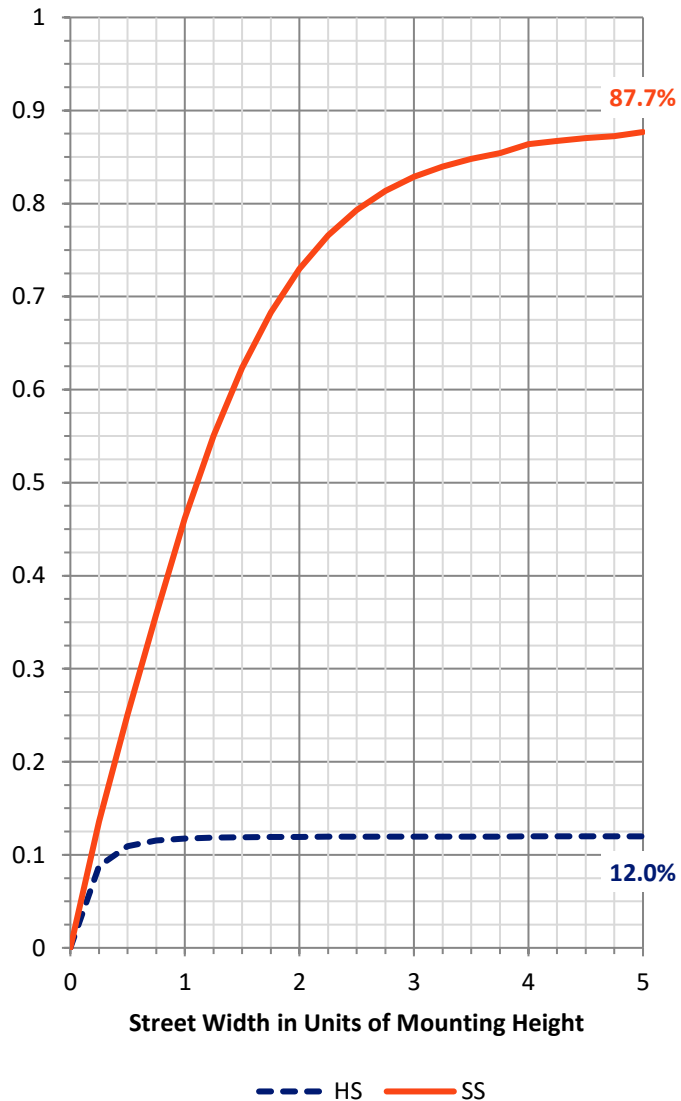
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1424.2	0.0	1424.2
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	10342.8	0.0	10342.8
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	11767.0	0.0	11767.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.2	2.5
10°-20°	585.6	5.0
20°-30°	831.5	7.1
30°-40°	1228.2	10.4
40°-50°	1771.3	15.1
50°-60°	2486.6	21.1
60°-70°	2898.6	24.6
70°-80°	1481.8	12.6
80°-90°	189.2	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11767.0	100.0
0°-180°	11767.0	100.0

**Coefficient of Utilization**

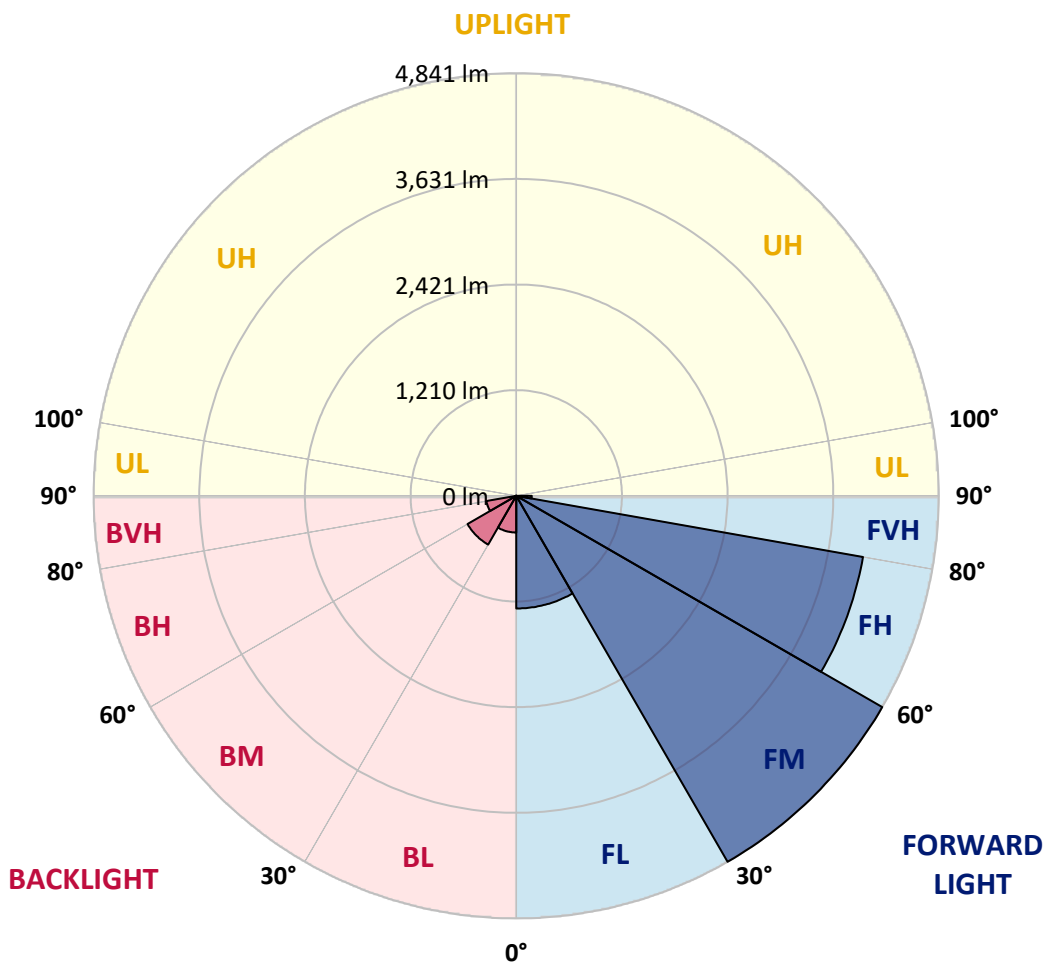


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1290.6	11.0			
FM (30°-60°)	4841.1	41.1			
FH (60°-80°)	4033.3	34.3			G2/5000
FVH (80°-90°)	177.7	1.5			G2/225
BL (0°-30°)	420.7	3.6	B1/500		
BM (30°-60°)	644.9	5.5	B1/1000		
BH (60°-80°)	347.1	2.9	B1/500		G1/500
BVH (80°-90°)	11.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1
2.5°	4197.1	4164.8	4129.1	4012.6	3904.4	3780.7	3679.8	3609.5	3521.5	3407.2	3378.2
5°	4167.0	4132.4	4020.4	3761.2	3534.3	3313.5	3100.6	2975.7	2820.7	2663.5	2624.5
7.5°	3864.3	3828.1	3666.4	3311.3	3005.8	2686.9	2410.4	2239.3	2064.3	1920.4	1844.1
10°	3549.3	3509.8	3328.0	2897.1	2520.8	2232.6	2029.7	1866.4	1700.8	1546.9	1424.3
12.5°	3332.5	3280.6	3083.3	2595.0	2267.2	2071.5	1882.0	1686.3	1462.2	1297.2	1162.3
15°	3241.6	3182.5	2974.0	2478.5	2177.4	1947.8	1700.8	1460.5	1198.0	1009.0	885.2
17.5°	3311.9	3234.9	3011.4	2470.7	2064.8	1752.1	1439.9	1157.8	873.0	681.8	593.7
20°	3550.4	3449.5	3165.8	2468.4	1928.2	1519.6	1123.8	805.0	575.3	462.7	416.4
22.5°	3926.2	3792.9	3387.7	2486.3	1787.2	1275.5	811.7	546.9	432.0	373.5	346.2
25°	4379.9	4225.5	3707.1	2549.3	1663.5	1038.0	589.8	432.0	364.6	321.7	298.8
27.5°	4811.4	4686.0	4110.7	2640.1	1567.6	846.2	478.9	366.2	311.6	283.2	264.8
30°	5242.3	5084.6	4524.9	2748.3	1452.2	716.3	420.9	333.9	279.3	249.2	237.5
32.5°	5555.6	5424.6	4849.3	2826.3	1329.0	631.6	376.3	305.5	260.9	230.2	212.9
35°	5924.1	5775.8	5127.5	2843.6	1249.8	578.1	338.4	274.8	226.3	199.0	180.6
37.5°	6322.1	6137.6	5448.6	2805.7	1187.9	551.9	309.9	260.9	211.3	183.4	163.9
40°	6762.5	6554.0	5756.9	2751.1	1127.2	543.0	288.2	250.3	199.6	171.1	151.1
42.5°	7226.3	6980.5	6023.9	2693.6	1088.7	512.3	286.0	239.7	190.7	160.0	139.9
45°	7616.0	7366.8	6298.2	2674.7	1061.4	478.9	295.5	232.5	184.5	151.1	131.6
47.5°	7926.5	7690.7	6579.1	2717.0	1045.8	448.2	269.3	241.9	181.2	143.3	124.3
50°	8297.2	8030.2	6974.9	2843.6	1022.9	417.5	243.6	277.1	181.2	138.2	118.2
52.5°	8762.1	8497.9	7416.4	3039.8	977.2	375.2	219.1	277.6	182.8	131.6	110.4
55°	9346.9	9155.1	8046.9	3255.0	904.2	312.7	189.5	238.6	176.2	119.3	103.1
57.5°	9907.7	9751.0	8621.6	3402.2	806.6	244.2	165.0	192.3	161.1	104.8	92.0
59°	10061.0	9889.9	8832.4	3408.9	733.6	212.9	152.7	158.9	157.8	98.1	85.3
60°	10061.0	9879.3	8893.1	3373.2	680.7	195.7	144.9	141.6	164.4	93.7	81.4
62.5°	9878.7	9623.4	8695.8	3131.8	555.2	166.7	126.5	117.1	147.7	84.2	71.9
65°	9499.6	9127.8	8023.5	2695.3	495.0	152.7	109.3	95.9	102.6	74.1	63.0
67.5°	8867.5	8363.5	7054.1	2177.4	471.1	148.8	94.2	81.4	77.5	63.6	55.2
70°	7754.2	7195.1	5877.3	1712.0	450.4	147.2	79.2	68.6	62.4	53.5	46.8
72.5°	5643.7	5060.6	4172.6	1338.5	438.2	150.5	63.6	57.4	51.3	41.8	36.2
75°	3228.2	2846.4	2345.2	884.1	373.5	143.8	49.1	47.9	36.8	30.1	25.1
77.5°	1667.9	1617.2	1405.4	339.5	178.9	63.0	32.3	27.9	21.7	18.4	15.1
80°	719.7	711.9	616.0	98.1	47.4	35.1	18.4	11.7	10.0	7.8	6.1
82.5°	248.6	248.6	219.1	32.9	21.2	17.3	2.2	0.0	0.0	0.0	0.0
85°	50.2	56.3	39.6	0.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1
2.5°	3343.1	3275.6	3271.2	3228.8	3175.8	3151.9	3137.9	3162.5	3192.6	3195.9	3241.1
5°	2595.0	2524.2	2553.7	2478.5	2493.5	2478.5	2453.9	2458.4	2471.8	2430.0	2481.8
7.5°	1822.3	1768.8	1802.8	1782.7	1809.5	1820.1	1805.0	1782.7	1717.0	1709.2	1754.3
10°	1373.6	1312.8	1276.6	1238.7	1247.0	1264.3	1258.7	1242.6	1200.8	1203.0	1246.5
12.5°	1103.8	1035.8	963.8	870.7	847.9	860.7	847.9	838.4	798.3	801.6	840.1
15°	837.3	781.6	706.3	631.6	590.9	594.8	559.1	534.0	509.0	478.9	502.3
17.5°	565.3	531.3	509.0	486.7	438.2	427.0	381.9	333.4	314.4	300.5	310.5
20°	400.3	381.9	372.9	371.8	344.0	330.0	286.0	255.9	246.4	243.6	249.7
22.5°	334.5	321.1	308.3	301.0	287.1	270.9	237.5	222.4	215.7	212.4	216.9
25°	291.0	281.0	267.6	255.3	249.7	232.5	208.5	197.3	192.9	189.5	191.8
27.5°	258.7	249.7	234.1	226.3	221.9	206.8	186.2	177.3	173.4	172.3	171.7
30°	233.0	224.7	210.2	201.2	193.4	180.1	167.8	158.9	155.0	153.9	152.7
32.5°	207.4	200.7	191.2	182.3	173.9	161.7	151.1	143.8	137.7	136.6	136.0
35°	175.0	168.4	163.3	162.8	155.0	143.3	135.5	126.0	121.0	119.3	119.9
37.5°	155.5	146.6	135.5	139.4	137.1	128.8	118.2	108.7	103.7	102.6	102.6
40°	143.3	133.8	121.0	114.3	121.0	119.3	102.6	93.1	88.1	87.5	86.4
42.5°	131.6	122.1	107.6	96.4	99.8	104.8	88.6	79.7	74.7	73.6	71.9
45°	123.2	113.2	97.0	84.2	77.5	88.1	75.8	64.7	61.9	59.6	58.5
47.5°	115.4	105.9	87.5	73.0	61.9	63.6	60.8	53.0	49.6	47.4	46.8
50°	108.7	98.7	79.2	62.4	51.3	46.8	49.1	41.8	39.0	36.8	35.7
52.5°	100.9	91.4	70.2	54.1	42.9	36.8	37.3	32.9	30.1	28.4	27.9
55°	94.8	85.3	63.0	47.4	37.9	30.1	26.8	25.6	24.0	22.9	22.3
57.5°	86.4	77.5	55.7	40.1	32.3	24.5	20.6	20.6	20.1	19.0	18.4
59°	81.4	73.6	51.3	36.2	29.5	21.2	18.4	19.0	18.4	17.3	16.7
60°	77.5	70.2	47.9	33.4	27.9	19.5	16.7	17.8	17.3	16.2	15.6
62.5°	68.6	63.6	41.3	27.9	24.5	15.6	13.9	15.1	15.1	14.5	13.9
65°	60.2	54.6	35.1	23.4	22.9	13.4	11.1	13.4	13.9	12.8	11.7
67.5°	52.4	46.8	30.7	19.0	21.2	10.6	8.4	11.1	15.1	11.7	10.6
70°	44.6	39.0	24.0	15.1	22.3	7.2	6.7	10.0	17.8	12.8	10.0
72.5°	34.6	30.1	16.7	11.1	24.0	5.0	5.0	8.4	20.1	13.9	9.5
75°	24.0	19.5	10.0	6.7	19.5	3.3	3.3	7.8	19.0	12.8	8.9
77.5°	13.9	10.6	3.3	0.6	10.0	0.0	0.6	5.6	13.4	7.8	3.9
80°	5.0	2.2	0.0	0.0	6.1	0.0	0.0	0.0	1.1	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1
2.5°	3252.8	3328.0	3395.5	3497.5	3618.5	3757.8	3877.7	4006.4	4127.4	4177.6	4212.1
5°	2492.4	2585.5	2694.2	2844.1	3043.7	3289.6	3519.8	3780.1	4060.0	4199.9	4331.4
7.5°	1762.1	1856.9	1991.8	2151.2	2392.6	2685.3	2986.3	3345.9	3724.9	3946.2	4164.2
10°	1267.1	1383.6	1509.6	1727.6	1972.8	2250.5	2560.4	2961.8	3384.3	3629.6	3892.2
12.5°	862.4	995.1	1185.7	1429.9	1718.1	1990.1	2259.4	2642.3	3132.9	3376.0	3657.5
15°	517.3	590.9	792.7	1075.3	1428.8	1767.7	2062.6	2446.7	2969.6	3267.3	3559.9
17.5°	318.9	352.9	462.7	694.6	1065.9	1494.5	1898.7	2380.3	2993.0	3355.3	3668.6
20°	254.2	267.6	302.7	410.3	706.3	1193.5	1714.2	2367.0	3184.2	3630.2	3966.3
22.5°	220.8	233.6	257.0	298.2	444.3	893.6	1539.1	2379.2	3458.5	4042.1	4434.6
25°	194.6	205.7	228.0	262.0	325.6	629.4	1351.8	2433.9	3815.8	4553.3	4970.3
27.5°	173.9	183.4	204.0	235.2	279.3	439.3	1139.4	2500.2	4239.5	5076.2	5487.6
30°	155.0	163.3	181.7	210.7	242.5	337.8	906.4	2545.4	4663.7	5487.6	5857.2
32.5°	138.8	144.9	161.7	186.2	210.7	269.3	689.0	2538.1	4978.7	5829.9	6123.1
35°	122.1	128.2	142.7	163.9	183.4	222.4	541.8	2402.6	5252.9	6185.0	6427.5
37.5°	103.7	111.5	125.4	144.4	157.8	195.7	438.2	2239.3	5531.1	6590.8	6767.0
40°	88.1	95.9	108.1	128.8	137.1	185.6	336.7	2040.3	5843.8	7044.6	7139.4
42.5°	73.0	80.3	93.1	110.9	129.3	160.0	249.2	1812.9	6144.3	7432.6	7478.9
45°	59.1	66.3	79.7	97.6	138.2	132.7	192.9	1569.2	6386.8	7755.4	7770.4
47.5°	46.8	53.5	67.5	92.0	128.8	105.9	137.7	1378.0	6590.3	8007.3	7967.7
50°	36.2	41.8	56.3	105.4	112.6	87.5	104.2	1314.5	6772.6	8163.4	8060.8
52.5°	28.4	33.4	46.3	98.7	87.5	72.5	87.5	1374.1	7022.3	8292.7	8113.2
55°	22.9	27.9	36.2	56.3	59.6	61.3	74.7	1429.9	7453.2	8596.0	8422.6
57.5°	19.0	24.0	29.5	39.6	45.2	51.8	66.3	1436.0	7961.1	9099.9	8936.0
59°	17.3	21.7	26.8	35.1	39.6	47.4	62.4	1402.6	8140.0	9283.3	9201.4
60°	16.2	20.6	25.1	32.3	36.8	44.6	60.2	1370.8	8147.8	9276.7	9314.6
62.5°	13.9	18.4	22.3	27.3	31.2	37.9	54.1	1253.2	7817.8	8972.8	9246.5
65°	12.3	16.2	20.1	23.4	26.8	34.0	49.1	1038.5	7254.2	8482.8	8781.1
67.5°	11.1	13.9	18.4	20.6	24.0	30.1	43.5	740.3	6550.1	7883.6	8077.0
70°	10.0	13.4	16.7	19.0	21.7	26.2	37.3	425.3	5531.1	7006.1	7143.8
72.5°	9.5	12.8	15.1	17.8	19.5	23.4	34.0	200.1	4049.9	5612.5	5972.0
75°	8.4	11.7	13.9	16.7	18.4	21.2	29.0	95.9	2693.6	4061.6	4470.3
77.5°	5.0	9.5	12.8	15.1	16.2	18.4	24.0	55.2	1719.2	2811.3	3311.3
80°	0.0	3.3	9.5	12.8	13.9	15.6	18.4	43.5	919.8	1606.0	1927.7
82.5°	0.0	0.0	6.7	10.0	9.5	10.6	13.9	27.3	414.7	1049.7	1182.9
85°	0.0	0.0	2.2	7.8	6.7	5.0	9.5	9.5	90.9	531.3	662.8
87.5°	0.0	0.0	0.0	0.6	3.3	2.2	3.9	1.1	0.6	39.6	160.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324607

CATALOG NUMBER: GLEON-SA3C-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1	3833.1
2.5°	4333.1	4374.4	4444.1	4476.9	4460.8	4392.2	4310.3	4226.6	4177.6	4197.1
5°	4599.6	4812.0	4934.6	4975.3	4907.3	4753.4	4552.2	4286.8	4192.6	4167.0
7.5°	4599.6	4999.3	5252.4	5297.0	5145.3	4843.7	4466.4	4052.2	3914.5	3864.3
10°	4437.9	4982.0	5334.9	5405.7	5193.8	4742.8	4237.2	3764.5	3601.2	3549.3
12.5°	4255.6	4841.5	5213.3	5310.9	5137.0	4642.5	4078.4	3570.0	3377.6	3332.5
15°	4143.6	4668.7	4976.4	5047.2	4973.6	4584.0	4040.5	3511.4	3285.1	3241.6
17.5°	4183.7	4534.9	4645.9	4687.1	4736.7	4563.3	4143.6	3639.6	3353.1	3311.9
20°	4334.8	4393.9	4336.5	4388.3	4522.1	4583.4	4389.4	3949.6	3605.6	3550.4
22.5°	4591.2	4320.9	4159.7	4180.4	4343.2	4649.8	4765.1	4392.2	3995.3	3926.2
25°	4890.0	4379.9	4061.6	4043.2	4210.5	4737.3	5108.5	4873.9	4456.3	4379.9
27.5°	5265.7	4512.6	4041.6	4023.2	4164.2	4819.2	5394.0	5349.9	4941.9	4811.4
30°	5555.6	4643.1	4101.2	4058.8	4210.5	4876.1	5623.1	5754.1	5328.7	5242.3
32.5°	5763.6	4796.9	4198.2	4136.9	4340.9	4974.2	5799.8	6124.2	5686.6	5555.6
35°	5921.9	4964.2	4354.9	4254.0	4520.4	5123.0	5965.4	6518.4	6067.4	5924.1
37.5°	6070.2	5198.8	4599.6	4479.2	4801.9	5362.7	6140.4	6965.4	6493.3	6322.1
40°	6277.0	5464.8	4977.0	4869.9	5275.2	5689.4	6358.9	7431.5	6977.7	6762.5
42.5°	6483.8	5750.2	5363.3	5392.3	5865.6	6086.3	6641.0	7924.3	7456.0	7226.3
45°	6672.8	6044.5	5913.5	6047.3	6413.5	6521.7	6921.4	8209.1	7837.9	7616.0
47.5°	6841.1	6412.4	6460.4	6816.6	7036.8	6915.8	7131.0	8455.0	8122.2	7926.5
50°	7036.8	6888.5	7181.2	7685.1	7754.2	7272.6	7321.6	8746.0	8454.4	8297.2
52.5°	7250.9	7390.2	7979.4	8423.7	8401.4	7660.0	7513.4	9072.1	8909.8	8762.1
55°	7493.9	7795.5	8682.4	9115.0	9096.0	8092.6	7831.2	9475.1	9480.7	9346.9
57.5°	7854.6	8144.5	9159.6	9674.1	9705.9	8592.1	8369.7	9926.6	9996.9	9907.7
59°	8113.2	8370.8	9348.6	9907.7	10037.0	8978.4	8763.2	10188.7	10142.4	10061.0
60°	8305.0	8514.6	9442.2	10029.8	10229.3	9240.4	9053.7	10342.5	10159.7	10061.0
62.5°	8779.4	8827.9	9611.1	10168.0	10450.7	9822.4	9870.9	10604.5	10039.8	9878.7
65°	9000.7	9025.8	9608.9	9920.5	10236.6	10275.6	10612.3	10612.3	9747.1	9499.6
67.5°	8908.2	8787.2	9132.3	9099.9	9415.5	10006.4	10891.0	10223.2	9187.5	8867.5
70°	8155.6	7690.1	7536.8	7550.8	7792.1	8703.6	10339.2	9078.2	8128.3	7754.2
72.5°	6785.9	5669.3	5290.8	5722.9	5785.9	6688.9	8811.2	6836.7	5994.3	5643.7
75°	5458.1	3996.4	3381.0	3837.0	3944.0	4895.0	6816.0	4257.9	3501.4	3228.2
77.5°	3921.2	2868.7	2426.1	2394.3	2532.5	3104.5	4836.5	2142.9	1787.2	1667.9
80°	2227.6	1888.1	2033.0	1918.2	1987.9	1941.1	2297.8	939.9	769.8	719.7
82.5°	1344.6	1116.0	1208.6	1006.2	1273.2	1108.8	885.2	301.0	261.4	248.6
85°	874.7	609.9	317.8	212.9	438.7	708.5	197.9	81.9	63.0	50.2
87.5°	301.6	155.5	15.6	6.7	46.8	132.1	7.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)